

# Product datasheet for RC207479L4

# OTX2 (NM\_021728) Human Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	OTX2 (NM_021728) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	OTX2
Synonyms:	CPHD6; MCOPS5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207479).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I          GCG ATC GC         ATG// NNN         ACG CGT



ACCN: ORF Size: NM\_021728 891 bp



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# **GRIGENE** OTX2 (NM\_021728) Human Tagged Lenti ORF Clone – RC207479L4

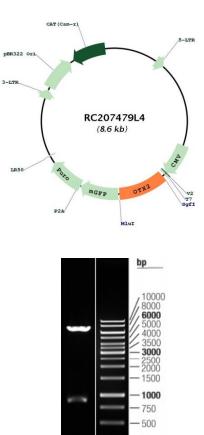
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
RefSeq:	<u>NM 021728.2</u>
RefSeq Size:	2219 bp
RefSeq ORF:	894 bp
Locus ID:	5015
UniProt ID:	<u>P32243</u>
Cytogenetics:	14q22.3
Domains:	homeobox, TF_Otx
Protein Families:	Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors
MW:	32.4 kDa

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#### STATE OTX2 (NM\_021728) Human Tagged Lenti ORF Clone – RC207479L4

# Gene Summary:This gene encodes a member of the bicoid subfamily of homeodomain-containing<br/>transcription factors. The encoded protein acts as a transcription factor and plays a role in<br/>brain, craniofacial, and sensory organ development. The encoded protein also influences the<br/>proliferation and differentiation of dopaminergic neuronal progenitor cells during mitosis.<br/>Mutations in this gene cause syndromic microphthalmia 5 (MCOPS5) and combined pituitary<br/>hormone deficiency 6 (CPHD6). This gene is also suspected of having an oncogenic role in<br/>medulloblastoma. Alternative splicing results in multiple transcript variants encoding distinct<br/>isoforms. Pseudogenes of this gene are known to exist on chromosomes two and nine.<br/>[provided by RefSeq, Jul 2012]

## **Product images:**



Circular map for RC207479L4

Double digestion of RC207479L4 using Sgfl and Mlul

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